

Table 2.1  
All Cancer Sites (Invasive)

Trends in SEER Incidence<sup>ab</sup> and U.S. Mortality<sup>c</sup> Using the Joinpoint Regression Program,  
1975-2008 With up to Five Joinpoints, 1992-2008 With up to Three Joinpoints,  
Both Sexes by Race/Ethnicity

	JP Trend 1		JP Trend 2		JP Trend 3		JP Trend 4		JP Trend 5		JP Trend 6		AAPC <sup>d</sup>	
	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	1999-08	2004-08
<u>SEER 9 Delay-Adjusted Incidence<sup>a</sup>, 1975-2008</u>														
All Races	1975-89	1.2*	1989-92	2.8	1992-95	-2.4	1995-98	1.2	1998-08	-0.4*			-0.4*	-0.4*
White	1975-82	0.8*	1982-92	1.8*	1992-95	-2.1	1995-98	1.5	1998-08	-0.4*			-0.4*	-0.4*
Black	1975-84	1.6*	1984-89	0.4	1989-92	4.1*	1992-06	-0.8*	2006-08	1.5			-0.2	0.4
<u>SEER 13 Delay-Adjusted Incidence<sup>b</sup>, 1992-2008</u>														
All Races	1992-94	-3.2*	1994-99	0.4	1999-05	-0.8*	2005-08	0.1					-0.5	-0.1
White	1992-94	-3.1*	1994-01	0.4	2001-04	-1.4	2004-08	0.1					-0.3	0.1
Black	1992-08	-0.7*											-0.7*	-0.7*
<u>SEER 9 Observed Incidence<sup>a</sup>, 1975-2008</u>														
All Races	1975-89	1.2*	1989-92	2.8	1992-95	-2.4	1995-99	0.8	1999-08	-0.6*			-0.6*	-0.6*
White	1975-82	0.9*	1982-92	1.8*	1992-95	-2.1	1995-99	1.1	1999-08	-0.7*			-0.7*	-0.7*
Black	1975-89	1.2*	1989-92	3.4	1992-08	-0.8*							-0.8*	-0.8*
<u>SEER 13 Observed Incidence<sup>b</sup>, 1992-2008</u>														
All Races	1992-94	-3.1*	1994-99	0.3	1999-08	-0.7*							-0.7*	-0.7*
White	1992-94	-3.3*	1994-99	0.6	1999-08	-0.7*							-0.7*	-0.7*
White NH <sup>ef</sup>	1992-94	-3.2*	1994-99	0.7	1999-08	-0.5*							-0.5*	-0.5*
Black	1992-08	-0.8*											-0.8*	-0.8*
Black NH <sup>ef</sup>	1992-08	-0.8*											-0.8*	-0.8*
API <sup>e</sup>	1992-08	-0.4*											-0.4*	-0.4*
AI/AN <sup>eg</sup>	1992-08	0.0											0.0	0.0
Hispanic <sup>f</sup>	1992-04	-0.6*	2004-08	-2.2*									-1.3*	-2.2*
<u>U.S. Cancer Mortality<sup>c</sup>, 1975-2008</u>														
All Races														
White														
Black														
<u>U.S. Cancer Mortality<sup>c</sup>, 1992-2008</u>														
All Races														
White														
White NH <sup>ef</sup>														
Black														
Black NH <sup>ef</sup>														
API <sup>e</sup>														
AI/AN <sup>eg</sup>														
Hispanic <sup>f</sup>														

Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute. (<http://surveillance.cancer.gov/joinpoint/>).

The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

Trends are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Trends are from the SEER 13 areas (SEER 9 Areas, Los Angeles, San Jose-Monterey, Rural Georgia, and the Alaska Native Registry).

Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint.

API - Asian/Pacific Islander, AI/AN - American Indian/Alaska Native, NH - Non-Hispanic

Hispanic and Non-Hispanic are not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska

Natives. Incidence data for Hispanics and Non-Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

The Hispanic and Non-Hispanic mortality trends exclude deaths from CT, DC, ME, MD, MN, NH, NY, ND, OK and VT.

Data for American Indian/Alaska Native are based on the CHSDA (Contract Health Service Delivery Area) counties.

\* The APC/AAPC is significantly different from zero ( $p < .05$ ).

- Joinpoint regression line analysis could not be performed on data series.

Table 2.2  
All Cancer Sites (Invasive)

Trends in SEER Incidence<sup>ab</sup> and U.S. Mortality<sup>c</sup> Using the Joinpoint Regression Program,  
1975-2008 With up to Five Joinpoints, 1992-2008 With up to Three Joinpoints,  
Males by Race/Ethnicity

	JP Trend 1		JP Trend 2		JP Trend 3		JP Trend 4		JP Trend 5		JP Trend 6		AAPC <sup>d</sup>	
	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	1999-08	2004-08
<u>SEER 9 Delay-Adjusted Incidence<sup>a</sup>, 1975-2008</u>														
All Races	1975-89	1.3*	1989-92	5.2*	1992-95	-4.8*	1995-00	0.4	2000-08	-0.8*			-0.7*	-0.8*
White	1975-89	1.4*	1989-92	5.0*	1992-95	-5.1*	1995-00	0.7	2000-08	-0.8*			-0.6*	-0.8*
Black	1975-81	2.8*	1981-89	0.7	1989-92	6.6*	1992-06	-1.5*	2006-08	2.1			-0.7	0.3
<u>SEER 13 Delay-Adjusted Incidence<sup>b</sup>, 1992-2008</u>														
All Races	1992-94	-5.6*	1994-08	-0.6*									-0.6*	-0.6*
White	1992-94	-6.6*	1994-01	-0.1	2001-08	-0.9*							-0.7*	-0.9*
Black	1992-08	-1.4*											-1.4*	-1.4*
<u>SEER 9 Observed Incidence<sup>a</sup>, 1975-2008</u>														
All Races	1975-89	1.3*	1989-92	5.2*	1992-95	-4.8*	1995-00	0.4	2000-08	-1.0*			-0.8*	-1.0*
White	1975-89	1.4*	1989-92	5.0*	1992-95	-5.1*	1995-00	0.7	2000-08	-1.1*			-0.9*	-1.1*
Black	1975-81	2.8*	1981-89	0.7	1989-92	6.4	1992-08	-1.5*					-1.5*	-1.5*
<u>SEER 13 Observed Incidence<sup>b</sup>, 1992-2008</u>														
All Races	1992-95	-4.5*	1995-00	0.2	2000-08	-1.1*							-1.0*	-1.1*
White	1992-94	-6.7*	1994-01	-0.1	2001-08	-1.2*							-0.9*	-1.2*
White NH <sup>ef</sup>	1992-94	-6.7*	1994-01	0.1	2001-08	-0.9*							-0.7*	-0.9*
Black	1992-08	-1.6*											-1.6*	-1.6*
Black NH <sup>ef</sup>	1992-08	-1.5*											-1.5*	-1.5*
API <sup>e</sup>	1992-96	-2.8*	1996-00	0.5	2000-08	-1.1*							-1.0*	-1.1*
AI/AN <sup>eg</sup>	1992-08	-0.7											-0.7	-0.7
Hispanic <sup>f</sup>	1992-04	-1.2*	2004-08	-3.2*									-2.1*	-3.2*
<u>U.S. Cancer Mortality<sup>c</sup>, 1975-2008</u>														
All Races														
White														
Black														
<u>U.S. Cancer Mortality<sup>c</sup>, 1992-2008</u>														
All Races														
White														
White NH <sup>ef</sup>														
Black														
Black NH <sup>ef</sup>														
API <sup>e</sup>														
AI/AN <sup>eg</sup>														
Hispanic <sup>f</sup>														

Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute. (<http://surveillance.cancer.gov/joinpoint/>).

The APC is the Annual Percent Change based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

Trends are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Trends are from the SEER 13 areas (SEER 9 Areas, Los Angeles, San Jose-Monterey, Rural Georgia, and the Alaska Native Registry).

Trends are from US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

The AAPC is the Average Annual Percent Change and is based on the APCs calculated by Joinpoint.

API - Asian/Pacific Islander, AI/AN - American Indian/Alaska Native, NH - Non-Hispanic

Hispanic and Non-Hispanic are not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska

Natives. Incidence data for Hispanics and Non-Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

The Hispanic and Non-Hispanic mortality trends exclude deaths from CT, DC, ME, MD, MN, NH, NY, ND, OK and VT.

Data for American Indian/Alaska Native are based on the CHSDA (Contract Health Service Delivery Area) counties.

\* The APC/AAPC is significantly different from zero ( $p < .05$ ).

- Joinpoint regression line analysis could not be performed on data series.

Table 2.3  
All Cancer Sites (Invasive)

Trends in SEER Incidence<sup>ab</sup> and U.S. Mortality<sup>c</sup> Using the Joinpoint Regression Program,  
1975-2008 With up to Five Joinpoints, 1992-2008 With up to Three Joinpoints,  
Females by Race/Ethnicity

	JP Trend 1		JP Trend 2		JP Trend 3		JP Trend 4		JP Trend 5		JP Trend 6		AAPC <sup>d</sup>	
	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	Years	APC	1999-08	2004-08
<u>SEER 9 Delay-Adjusted Incidence<sup>a</sup>, 1975-2008</u>														
All Races	1975-79	-0.3	1979-87	1.6*	1987-95	0.1	1995-98	1.5	1998-05	-0.5*	2005-08	0.6	-0.2	0.3
White	1975-79	-0.2	1979-87	1.7*	1987-95	0.1	1995-98	1.8	1998-05	-0.5*	2005-08	0.5	-0.2	0.3
Black	1975-90	1.2*	1990-08	0.1									0.1	0.1
<u>SEER 13 Delay-Adjusted Incidence<sup>b</sup>, 1992-2008</u>														
All Races	1992-98	0.8*	1998-06	-0.5*	2006-08	1.1							-0.2	0.3
White	1992-94	-0.3	1994-98	1.5*	1998-04	-0.7*	2004-08	0.3					-0.3	0.3
Black	1992-08	0.1											0.1	0.1
<u>SEER 9 Observed Incidence<sup>a</sup>, 1975-2008</u>														
All Races	1975-79	-0.3	1979-87	1.6*	1987-95	0.1	1995-98	1.3	1998-08	-0.4*			-0.4*	-0.4*
White	1975-79	-0.2	1979-87	1.7*	1987-95	0.1	1995-98	1.6	1998-08	-0.5*			-0.5*	-0.5*
Black	1975-91	1.1*	1991-08	0.0									0.0	0.0
<u>SEER 13 Observed Incidence<sup>b</sup>, 1992-2008</u>														
All Races	1992-94	-0.4	1994-98	1.2	1998-04	-0.8*	2004-08	0.0					-0.4*	0.0
White	1992-94	-0.3	1994-98	1.4*	1998-04	-0.8*	2004-08	-0.1					-0.5*	-0.1
White NH <sup>ef</sup>	1992-94	-0.1	1994-98	1.6*	1998-04	-0.6*	2004-08	0.1					-0.3	0.1
Black	1992-08	-0.1											-0.1	-0.1
Black NH <sup>ef</sup>	1992-08	-0.1											-0.1	-0.1
API <sup>e</sup>	1992-08	0.3*											0.3*	0.3*
AI/AN <sup>eg</sup>	1992-08	0.7*											0.7*	0.7*
Hispanic <sup>f</sup>	1992-99	0.4	1999-08	-0.8*									-0.8*	-0.8*
<u>U.S. Cancer Mortality<sup>c</sup>, 1975-2008</u>														
All Races														
White														
Black														
<u>U.S. Cancer Mortality<sup>c</sup>, 1992-2008</u>														
All Races														
White														
White NH <sup>ef</sup>														
Black														
Black NH <sup>ef</sup>														
API <sup>e</sup>														
AI/AN <sup>eg</sup>														
Hispanic <sup>f</sup>														

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Data for American Indian/Alaska Native are based on the CHSDA (Contract Health Service Delivery Area) counties.

\* The APC/AAPC is significantly different from zero (p<.05).

- Joinpoint regression line analysis could not be performed on data series.

Table 2.4  
All Cancer Sites (Invasive)

Delay-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
Year of Diagnosis:									
1975	400.40	466.79	365.83	402.10	468.57	369.54	426.49	525.38	356.65
1976	407.39	481.12	367.40	409.71	481.84	373.14	427.36	553.02	340.40
1977	407.74	486.48	363.73	409.30	487.09	367.91	442.59	577.58	352.01
1978	407.33	488.40	362.23	409.84	489.81	367.97	436.49	570.67	344.07
1979	412.52	496.47	365.54	414.10	497.56	369.71	451.57	589.90	359.00
1980	418.04	505.78	368.10	419.48	505.19	373.36	467.50	615.13	366.56
1981	425.25	510.84	377.09	427.65	510.81	383.86	472.73	633.91	362.95
1982	424.48	511.08	376.18	427.76	512.48	383.41	465.42	621.93	359.84
1983	431.20	520.01	380.80	434.47	521.07	388.03	487.13	646.05	382.14
1984	440.01	525.47	392.49	443.71	527.74	399.64	488.22	643.99	386.11
1985	448.89	531.27	403.19	453.53	533.59	411.60	489.13	643.70	388.27
1986	451.40	538.27	402.30	456.05	542.99	409.12	494.12	644.51	396.58
1987	468.07	563.21	413.34	475.04	568.95	423.48	501.26	666.47	394.28
1988	463.89	558.50	409.23	470.47	565.37	417.95	504.09	657.65	404.59
1989	467.81	567.06	408.40	475.34	573.74	418.78	492.93	661.73	384.82
1990	482.00	592.80	415.50	489.11	599.62	424.98	521.65	700.01	408.41
1991	503.17	637.62	419.04	510.79	644.94	428.71	549.65	765.38	413.24
1992	510.74	658.30	415.00	517.23	663.85	423.87	568.99	808.93	413.70
1993	493.59	622.29	408.50	497.46	620.81	417.57	568.96	819.32	404.42
1994	483.66	589.87	413.68	487.93	588.13	423.53	558.33	783.76	409.43
1995	477.03	571.69	415.00	482.68	570.82	426.57	542.74	748.42	405.05
1996	479.38	572.76	418.28	485.50	574.66	428.72	540.77	727.24	417.30
1997	486.78	575.99	428.74	494.45	577.57	441.88	541.13	740.58	411.01
1998	488.44	573.01	434.04	497.65	577.51	447.63	535.55	721.78	415.77
1999	491.04	581.33	430.97	499.88	584.28	444.74	540.83	723.15	421.13
2000	486.59	580.29	422.62	497.76	585.12	439.14	528.18	713.94	403.97
2001	490.24	581.19	427.67	502.30	588.65	443.78	521.34	700.02	401.15
2002	487.99	574.80	428.66	498.94	582.52	442.31	536.57	702.52	426.39
2003	475.41	559.86	417.61	486.92	566.08	433.45	520.05	683.80	411.58
2004	475.97	557.44	419.91	487.07	564.55	434.08	523.39	685.07	417.46
2005	470.92	546.56	418.98	483.44	556.26	434.04	507.05	642.33	418.12
2006	473.74	551.48	419.00	485.52	559.15	434.15	508.12	644.85	414.97
2007	478.96	561.34	420.20	489.76	567.87	434.53	519.03	671.11	415.28
2008	473.95	543.09	425.73	484.72	549.08	440.56	523.08	671.37	422.91

Additional information on the model used to delay-adjust SEER Incidence rates can be found at  
(<http://surveillance.cancer.gov/delay/>).

- <sup>a</sup> SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
- Delay-adjusted rate is not shown for observed rates based on less than 16 cases for the time interval.

Table 2.5  
All Cancer Sites (Invasive)

Age-adjusted SEER Incidence<sup>a</sup> Rates by Year, Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
Year of Diagnosis:									
1975	400.40	466.79	365.83	402.10	468.57	369.54	426.49	525.38	356.65
1976	407.39	481.12	367.40	409.71	481.84	373.14	427.36	553.02	340.40
1977	407.74	486.48	363.73	409.30	487.09	367.91	442.59	577.58	352.01
1978	407.33	488.40	362.23	409.84	489.81	367.97	436.49	570.67	344.07
1979	412.52	496.47	365.54	414.10	497.56	369.71	451.57	589.90	359.00
1980	418.04	505.78	368.10	419.48	505.19	373.36	467.50	615.13	366.56
1981	425.25	510.84	377.09	427.65	510.81	383.86	472.73	633.91	362.95
1982	424.46	511.06	376.17	427.73	512.45	383.38	465.38	621.86	359.81
1983	431.17	519.97	380.78	434.41	520.99	387.98	487.03	645.92	382.08
1984	439.96	525.41	392.45	443.61	527.62	399.56	488.07	643.78	386.00
1985	448.81	531.18	403.13	453.40	533.42	411.49	488.92	643.41	388.12
1986	451.30	538.16	402.21	455.87	542.77	408.98	493.84	644.13	396.37
1987	467.95	563.06	413.23	474.81	568.66	423.29	500.91	665.97	394.02
1988	463.74	558.31	409.10	470.19	565.01	417.72	503.65	657.04	404.27
1989	467.62	566.83	408.24	475.00	573.29	418.50	492.41	660.99	384.44
1990	481.76	592.50	415.30	488.67	599.04	424.63	520.97	699.05	407.92
1991	502.88	637.24	418.80	510.26	644.24	428.30	548.84	764.18	412.68
1992	510.39	657.83	414.72	516.60	662.99	423.39	568.00	807.44	413.04
1993	493.18	621.76	408.17	496.74	619.85	417.01	567.79	817.55	403.65
1994	483.19	589.28	413.28	487.10	587.06	422.86	556.99	781.77	408.52
1995	476.48	571.01	414.53	481.71	569.59	425.77	541.21	746.20	403.99
1996	478.72	571.96	417.72	484.35	573.20	427.77	538.99	724.71	416.02
1997	485.98	575.04	428.05	493.06	575.84	440.72	539.04	737.56	409.52
1998	487.56	571.96	433.27	496.12	575.62	446.34	533.29	718.58	414.14
1999	489.83	579.87	429.93	497.78	581.68	442.99	537.77	718.85	418.90
2000	485.15	578.55	421.39	495.27	582.03	437.07	524.66	708.94	401.44
2001	488.50	579.10	426.17	499.31	584.95	441.28	517.24	694.26	398.18
2002	485.90	572.30	426.86	495.39	578.15	439.33	531.58	695.68	422.64
2003	472.95	556.91	415.48	482.76	561.01	429.95	514.31	675.92	407.28
2004	472.97	553.88	417.31	482.07	558.47	429.86	516.53	675.68	412.26
2005	467.30	542.31	415.81	477.45	549.06	428.93	499.12	631.86	411.89
2006	469.28	546.22	415.10	478.25	550.41	427.96	498.61	632.29	407.55
2007	473.41	554.76	415.39	480.85	557.11	426.98	507.35	655.44	406.34
2008	463.37	530.84	416.33	469.34	531.03	427.11	503.18	644.98	407.41
1975-2008	463.17	553.28	405.99	468.54	555.54	415.14	507.72	675.17	396.87

<sup>a</sup> SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).  
 Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).  
 - Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 2.7  
All Cancer Sites (Invasive)

SEER Incidence<sup>a</sup> and U.S. Death<sup>b</sup> Rates, Age-Adjusted and Age-Specific Rates, by Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>SEER Incidence</u>									
<u>Age at Diagnosis</u>									
Age-Adjusted Rates, 2004-2008									
All ages	464.4	541.0	411.6	471.8	543.6	423.0	491.2	626.1	400.9
Under 65	223.8	219.1	229.6	226.4	218.9	235.4	247.2	280.6	221.3
65 and over	2,127.8	2,766.2	1,669.7	2,168.3	2,788.1	1,719.8	2,177.5	3,013.8	1,642.7
All ages (IARC world std) <sup>c</sup>	315.1	355.1	285.6	320.0	356.3	293.6	339.7	426.6	277.6
Age-Specific Rates, 2004-2008									
<1	23.5	25.6	21.4	24.2	26.5	21.9	18.6	21.0	16.1
1-4	20.7	22.3	19.0	21.6	23.2	19.9	16.1	17.4	14.8
5-9	11.5	12.4	10.6	12.1	13.2	10.9	8.9	9.4	8.5
10-14	13.6	14.2	13.1	14.4	15.0	13.8	11.0	11.0	10.9
15-19	21.6	22.6	20.6	23.1	24.4	21.8	14.7	14.4	15.0
20-24	35.7	33.9	37.7	38.5	37.3	39.9	22.7	19.7	25.8
25-29	54.1	46.5	62.1	58.1	50.6	66.4	39.1	32.7	45.2
30-34	84.3	61.8	107.6	88.7	65.6	113.6	70.4	48.4	90.7
35-39	129.6	87.7	172.6	133.7	91.9	178.0	114.5	77.6	148.2
40-44	214.1	148.1	280.5	217.0	149.8	286.5	210.6	158.2	257.8
45-49	350.6	275.6	424.5	353.1	274.9	432.1	367.8	334.3	397.5
50-54	559.5	536.0	582.2	558.9	526.2	591.3	660.7	739.9	592.7
55-59	854.1	943.2	770.1	856.3	927.9	786.9	1,034.1	1,341.6	780.4
60-64	1,263.5	1,501.2	1,045.8	1,275.6	1,491.6	1,073.2	1,513.2	2,057.3	1,082.2
65-69	1,756.1	2,209.2	1,359.9	1,782.2	2,205.4	1,404.9	1,995.8	2,812.2	1,376.4
70-74	2,091.1	2,691.9	1,602.2	2,137.5	2,714.2	1,658.6	2,158.0	2,996.7	1,560.4
75-79	2,359.2	3,069.3	1,836.6	2,418.3	3,107.0	1,903.0	2,258.6	3,061.9	1,747.8
80-84	2,444.5	3,187.7	1,973.0	2,493.0	3,224.4	2,026.9	2,276.8	3,103.4	1,827.3
85+	2,257.2	3,136.5	1,852.4	2,275.5	3,169.6	1,868.4	2,363.5	3,307.1	2,004.5
<u>U.S. Mortality</u>									
<u>Age at Death</u>									
Age-Adjusted Rates, 2004-2008									
All ages									
Under 65									
65 and over									
All ages (IARC world std) <sup>c</sup>									
Age-Specific Rates, 2004-2008									
<1									
1-4									
5-9									
10-14									
15-19									
20-24									
25-29									
30-34									
35-39									
40-44									
45-49									
50-54									
55-59									
60-64									
65-69									
70-74									
75-79									
80-84									
85+									

<sup>a</sup> SEER 17 areas. Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130), unless noted.

<sup>b</sup> US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

<sup>c</sup> Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130), unless noted.

- Rates are per 100,000 and are age-adjusted to the IARC world standard population.

- Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 2.8  
All Cancer Sites (Invasive)

5-Year Relative and Period Survival (Percent) by Race, Sex, Diagnosis Year and Age

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
5-Year Relative Survival (Percent)									
Year of Diagnosis:									
1960-1963 <sup>a</sup>	-	-	-	39	-	-	27	-	-
1970-1973 <sup>a</sup>	-	-	-	43	-	-	31	-	-
1975-1977 <sup>b</sup>	49.1	41.9	56.0	50.0	42.9	56.7	39.2	32.8	46.3
1978-1980 <sup>b</sup>	49.2	43.3	55.1	50.1	44.5	55.7	39.0	33.4	45.7
1981-1983 <sup>b</sup>	50.4	45.4	55.3	51.5	46.8	56.1	39.0	34.3	44.6
1984-1986 <sup>b</sup>	52.5	47.3	57.7	53.8	48.8	58.7	40.2	35.6	45.5
1987-1989 <sup>b</sup>	55.5	51.3	59.8	56.8	53.0	60.8	43.1	39.0	47.8
1990-1992 <sup>b</sup>	60.1	59.3	61.0	61.5	61.0	62.2	47.9	47.7	48.3
1993-1995 <sup>b</sup>	61.4	61.0	61.9	62.5	62.1	63.0	52.7	54.4	50.6
1996-2000 <sup>b</sup>	64.3	64.2	64.5	65.4	65.4	65.5	56.0	58.7	52.9
2001-2007 <sup>b</sup>	67.4 <sup>e</sup>	68.1 <sup>e</sup>	66.5 <sup>e</sup>	68.6 <sup>e</sup>	69.3 <sup>e</sup>	67.8 <sup>e</sup>	59.4 <sup>e</sup>	63.2 <sup>e</sup>	55.1 <sup>e</sup>
5-Year Period Survival (Percent) <sup>cd</sup>									
2007	65.9	66.6	65.2	66.5	67.0	66.0	58.6	61.9	54.9
5-Year Relative Survival (Percent), 2001-2007 <sup>c</sup>									
Age at Diagnosis:									
Ages <45	79.7	74.7	82.9	81.3	76.8	84.4	66.9	59.5	71.4
Ages 45-54	72.0	66.1	76.8	73.6	67.6	78.5	59.9	58.0	61.9
Ages 55-64	69.1	69.0	69.1	70.0	69.7	70.4	61.6	65.2	55.8
Ages 65-74	64.5	68.0	59.4	65.0	68.2	60.5	58.7	65.6	48.3
Ages 75+	52.4	57.3	47.7	53.1	57.5	49.0	42.3	49.9	35.5
Ages <65	72.3	69.2	75.4	73.6	70.4	76.7	62.1	62.1	62.2
Ages 65+	58.4	63.1	52.9	58.9	63.2	53.9	51.8	60.0	42.0

<sup>a</sup> Based on End Results data from a series of hospital registries and one population-based registry.

<sup>b</sup> SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta).

Based on follow-up of patients into 2008.

<sup>c</sup> SEER 17 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey).

Based on follow-up of patients into 2008.

<sup>d</sup> Period survival provides a 2007 estimate of survival by piecing together the most recent conditional survival estimates from several cohorts. It is computed here using three year calendar blocks (2005-2007: 0-1 year survival), (2004-2006: 1-2 year survival), (2003-2005: 2-3 year survival), (2002-2004: 3-4 year survival), (2001-2003: 4-5 years survival).

<sup>e</sup> The difference between 1975-1977 and 2001-2007 is statistically significant ( $p < .05$ ).

<sup>f</sup> The standard error is between 5 and 10 percentage points.

<sup>g</sup> The standard error is greater than 10 percentage points.

- Statistic could not be calculated due to fewer than 25 cases during the time period.

Table 2.9  
All Cancer Sites (Invasive)  
SEER<sup>a</sup> Relative Survival (Percent)  
By Year of Diagnosis

All Races, Males and Females

	Year of Diagnosis																				
	1975- 1979	1980- 1984	1985- 1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Survival Time																					
1-year	69.9	71.4	73.9	75.6	77.2	77.8	77.2	76.9	77.0	77.5	78.2	78.5	79.1	79.5	80.0	80.2	79.9	80.4	80.6	81.2	81.5
2-year	60.1	61.6	64.8	67.0	69.0	70.2	69.7	69.3	69.6	70.4	71.1	71.6	72.4	72.9	73.7	74.1	73.6	74.1	74.3	75.3	
3-year	55.0	56.4	60.0	62.6	64.8	66.4	65.8	65.5	65.9	66.8	67.6	68.2	69.1	69.7	70.4	70.9	70.3	71.0	71.1		
4-year	51.6	52.9	56.9	59.8	62.2	63.9	63.3	62.9	63.4	64.4	65.2	65.9	66.9	67.5	68.3	68.8	68.3	68.8			
5-year	49.1	50.4	54.6	57.9	60.2	62.0	61.4	61.1	61.7	62.6	63.4	64.1	65.3	66.0	66.9	67.3	66.7				
6-year	47.2	48.3	52.8	56.2	58.6	60.5	60.0	59.6	60.2	61.2	62.0	62.8	64.0	64.8	65.7	66.2					
7-year	45.5	46.6	51.2	54.6	57.2	59.1	58.6	58.3	59.0	60.2	61.0	61.7	63.0	63.7	64.7						
8-year	44.2	45.2	49.9	53.4	56.0	58.0	57.5	57.4	58.1	59.2	60.2	60.9	62.0	62.7							
9-year	43.0	44.0	48.7	52.3	55.0	57.1	56.5	56.5	57.3	58.3	59.3	60.0	61.3								
10-year	41.9	43.0	47.8	51.3	54.1	56.2	55.6	55.6	56.5	57.5	58.5	59.2									
11-year	40.9	42.0	46.9	50.4	53.4	55.4	54.8	54.7	55.7	56.8	57.8										
12-year	40.1	41.1	46.0	49.7	52.6	54.7	54.0	54.0	54.9	56.2											
13-year	39.4	40.4	45.2	49.0	52.0	54.0	53.4	53.4	54.1												
14-year	38.8	39.7	44.5	48.3	51.3	53.5	52.7	52.6													
15-year	38.1	39.0	43.8	47.6	50.6	52.8	52.0														
16-year	37.5	38.3	43.2	47.0	50.0	52.3															
17-year	37.0	37.7	42.7	46.4	49.4																
18-year	36.5	37.2	42.2	45.8																	
19-year	36.0	36.6	41.7																		
20-year	35.6	36.2																			

<sup>a</sup> Based on the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).



Table 2.10  
All Cancer Sites (Invasive)

SEER<sup>a</sup> Relative Survival (Percent)  
By Year of Diagnosis

All Races, Males

Year of Diagnosis

	1975- 1979	1980- 1984	1985- 1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Survival Time																					
1-year	64.5	67.4	70.6	73.7	76.3	77.5	76.6	76.1	75.8	76.8	77.4	77.3	78.5	79.1	79.6	79.6	79.4	80.1	80.3	81.2	81.6
2-year	53.8	56.8	60.8	64.5	68.0	69.9	69.1	68.1	68.3	69.7	70.4	70.6	71.7	72.7	73.3	73.7	73.2	74.0	74.0	75.5	
3-year	48.4	51.5	55.7	60.2	64.1	66.4	65.5	64.6	64.8	66.2	67.1	67.2	68.6	69.6	70.5	70.9	70.2	71.1	71.1		
4-year	44.9	47.9	52.4	57.3	61.4	64.2	63.2	62.1	62.5	63.9	65.0	65.1	66.7	67.7	68.6	69.2	68.4	69.2			
5-year	42.4	45.2	50.1	55.3	59.5	62.5	61.5	60.4	60.9	62.4	63.3	63.6	65.3	66.3	67.4	68.0	67.3				
6-year	40.4	43.1	48.2	53.6	57.9	61.1	60.3	59.1	59.6	61.2	62.0	62.4	64.2	65.2	66.4	67.1					
7-year	38.7	41.4	46.5	51.9	56.5	59.8	59.0	57.9	58.5	60.1	61.2	61.4	63.3	64.3	65.6						
8-year	37.2	40.0	45.2	50.6	55.2	58.5	58.0	56.8	57.7	59.3	60.3	60.6	62.4	63.4							
9-year	35.9	38.7	43.9	49.5	54.3	57.6	56.9	55.9	56.9	58.5	59.5	59.7	61.8								
10-year	34.7	37.7	42.9	48.4	53.4	56.6	56.0	55.1	56.0	57.7	58.9	59.1									
11-year	33.6	36.7	42.0	47.4	52.5	55.9	55.2	54.3	55.3	56.9	58.3										
12-year	32.7	35.8	41.0	46.7	51.9	55.3	54.4	53.4	54.4	56.3											
13-year	32.0	35.0	40.2	46.0	51.2	54.6	53.6	52.9	53.6												
14-year	31.2	34.2	39.4	45.3	50.6	53.9	53.0	52.1													
15-year	30.5	33.5	38.6	44.6	49.7	53.3	52.3														
16-year	29.8	32.7	37.9	43.8	49.1	52.7															
17-year	29.1	32.1	37.4	43.2	48.6																
18-year	28.5	31.5	36.8	42.7																	
19-year	28.1	30.9	36.3																		
20-year	27.6	30.4																			

<sup>a</sup> Based on the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Table 2.11  
All Cancer Sites (Invasive)

SEER<sup>a</sup> Relative Survival (Percent)  
By Year of Diagnosis

All Races, Females

Year of Diagnosis

	1975- 1979	1980- 1984	1985- 1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Survival Time																					
1-year	75.2	75.5	77.3	77.7	78.3	78.2	77.9	77.9	78.3	78.3	79.0	79.7	79.8	79.9	80.4	80.7	80.4	80.7	81.0	81.2	81.5
2-year	66.4	66.5	68.9	69.8	70.2	70.5	70.4	70.6	71.0	71.2	71.8	72.8	73.2	73.2	74.1	74.6	74.1	74.3	74.6	75.1	
3-year	61.5	61.4	64.4	65.4	65.7	66.3	66.2	66.6	67.0	67.4	68.0	69.1	69.6	69.7	70.3	70.9	70.5	70.8	71.1		
4-year	58.1	58.1	61.5	62.6	63.1	63.4	63.4	63.8	64.4	64.9	65.5	66.6	67.2	67.4	68.1	68.5	68.1	68.3			
5-year	55.7	55.5	59.2	60.7	61.0	61.3	61.4	61.8	62.5	62.9	63.6	64.7	65.3	65.7	66.3	66.6	66.2				
6-year	53.8	53.5	57.4	59.0	59.4	59.8	59.8	60.2	61.0	61.3	62.1	63.3	63.8	64.4	65.0	65.2					
7-year	52.2	51.8	55.9	57.6	58.1	58.3	58.3	58.9	59.6	60.3	61.0	62.1	62.6	63.2	63.7						
8-year	50.9	50.4	54.7	56.4	56.8	57.4	57.0	58.0	58.7	59.1	60.0	61.2	61.6	62.1							
9-year	49.8	49.3	53.5	55.3	55.8	56.5	56.1	57.1	57.7	58.2	59.0	60.2	60.8								
10-year	48.8	48.2	52.6	54.4	55.0	55.7	55.2	56.2	57.0	57.3	58.2	59.3									
11-year	47.9	47.2	51.7	53.6	54.3	54.8	54.4	55.3	56.1	56.7	57.4										
12-year	47.1	46.4	50.9	52.8	53.5	54.1	53.6	54.6	55.4	56.0											
13-year	46.5	45.7	50.2	52.1	52.9	53.4	53.1	54.0	54.6												
14-year	45.8	45.0	49.5	51.4	52.2	52.9	52.4	53.3													
15-year	45.2	44.4	48.9	50.8	51.6	52.3	51.8														
16-year	44.6	43.7	48.3	50.2	51.0																
17-year	44.1	43.1	47.8	49.6	50.4																
18-year	43.7	42.6	47.3	48.9																	
19-year	43.2	42.0	46.9																		
20-year	42.8	41.6																			

<sup>a</sup>

Based on the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, and Atlanta).

Table 2.15  
All Cancer Sites (Invasive)

SEER Incidence and U.S. Mortality  
Age-Adjusted Rates and Trends<sup>a</sup>  
By Race/Ethnicity and Sex

SEER Incidence	SEER 17 Areas <sup>b</sup> Rate 2004-2008			SEER 13 Areas <sup>b</sup> Trend 1999-2008 <sup>c</sup> AAPC (%)			SEER 9 Areas <sup>b</sup> Trend 1999-2008 <sup>d</sup> AAPC (%)		
	Rate per 100,000 persons								
	Total	Males	Females	Total	Males	Females	Total	Males	Females
RACE/ETHNICITY									
All Races	464.4	541.0	411.6	-0.7*	-1.0*	-0.4*	-0.6*	-0.8*	-0.4*
White	471.8	543.6	423.0	-0.7*	-0.9*	-0.5*	-0.7*	-0.9*	-0.5*
White Hispanic <sup>e</sup>	319.9	363.9	292.9	-1.5*	-2.3*	-0.4*	-	-	-
White Non-Hispanic <sup>e</sup>	498.7	573.3	447.1	-0.5*	-0.7*	-0.3	-	-	-
Black	491.2	626.1	400.9	-0.8*	-1.6*	-0.1	-0.8*	-1.5*	0.0
Asian/Pacific Islander	315.9	347.7	297.0	-0.4*	-1.0*	0.3*	-	-	-
Amer Ind/Alaska Nat <sup>f</sup>	319.9	338.0	309.0	0.0	-0.7	0.7*	-	-	-
Hispanic <sup>e</sup>	315.4	360.2	287.5	-1.3*	-2.1*	-0.8*	-	-	-

U.S. Mortality <sup>g</sup>	Rate 2004-2008 Rate per 100,000 persons			Trend 1999-2008 <sup>h</sup> AAPC (%)		
	Total	Males	Females	Total	Males	Females
	Total	Males	Females	Total	Males	Females
RACE/ETHNICITY						
All Races						
White						
White Hispanic <sup>e</sup>						
White Non-Hispanic <sup>e</sup>						
Black						
Asian/Pacific Islander						
Amer Ind/Alaska Nat						
Total U.S.						
CHSDA Counties						
Non-CHSDA Counties						
Hispanic <sup>e</sup>						

The AAPC is the Average Annual Percent Change over the time interval. The AAPCs are calculated by the Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute.

- Statistic not shown. Rate based on less than 16 cases for the time interval.

Trend based on less than 10 cases for at least one year within the time interval.

<sup>a</sup> Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130). Trends are based on rates age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130).

<sup>b</sup> The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah and Atlanta.

The SEER 13 areas comprise the SEER 9 areas plus San Jose-Monterey, Los Angeles, the Alaska Native Registry and Rural Georgia.

The SEER 17 areas comprise the SEER 13 areas plus California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey.

<sup>c</sup> The 1999-2008 AAPC estimates are based on a Joinpoint analysis with up to 3 Joinpoints over diagnosis years 1992-2008.

<sup>d</sup> The 1999-2008 AAPC estimates are based on a Joinpoint analysis with up to 5 Joinpoints over diagnosis years 1975-2008.

<sup>e</sup> Hispanic and Non-Hispanic are not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics and Non-Hispanics are based on NHIA and exclude cases from the Alaska Native Registry. The 2004-2008 Hispanic and Non-Hispanic death rates exclude deaths from the District of Columbia, New Hampshire, and North Dakota. The 1999-2008 Hispanic and Non-Hispanic mortality trends exclude deaths from Connecticut, the District of Columbia, Maine, Maryland, Minnesota, New Hampshire, New York, North Dakota, Oklahoma and Vermont.

<sup>f</sup> Incidence data for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.

<sup>g</sup> US Mortality Files, National Center for Health Statistics, CDC.

<sup>h</sup> The 1999-2008 mortality AAPCs are based on a Joinpoint analysis using years of death 1992-2008.

\* The APC is significantly different from zero (p<.05).

Table 2.16  
All Cancer Sites (Invasive)

Age-Adjusted SEER Incidence Rates<sup>a</sup>  
By Registry, Race and Sex

	All Races			Whites			Blacks		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
<u>SEER Incidence Rates<sup>a</sup>, 2004-2008</u>									
Atlanta & Rural Georgia	446.72	539.76	383.19	442.53	515.69	394.29	480.10	638.90	381.03
Atlanta	445.76	536.52	384.25	440.03	510.99	393.88	485.21	643.73	387.01
Rural Georgia	464.12	593.60	368.06	483.92	587.33	404.04	426.17	606.79	308.50
California	438.06	505.08	392.19	448.84	512.64	405.51	465.77	572.46	391.23
Greater Bay Area	440.23	505.00	395.89	467.61	534.00	421.86	484.65	597.79	404.92
San Francisco-Oakland	444.11	509.68	398.93	470.19	535.51	424.76	492.23	606.69	413.10
San Jose-Monterey	432.61	496.15	389.54	462.97	531.51	416.47	433.46	545.69	338.63
Los Angeles	420.22	484.19	378.69	425.72	481.72	390.44	463.00	565.25	396.31
Greater California	445.66	514.59	397.43	452.57	518.31	406.96	461.32	569.48	378.70
Connecticut	504.69	582.03	453.80	507.19	579.65	460.75	476.10	606.25	386.96
Detroit	515.96	617.77	447.60	506.53	589.51	452.92	549.06	711.47	443.25
Hawaii	432.20	495.76	387.52	531.98	627.21	454.05	334.63	410.74	231.73
Iowa	476.11	552.91	424.48	471.65	544.87	423.04	540.23	695.38	419.57
Kentucky	511.81	602.63	450.47	509.22	597.39	449.75	532.30	663.38	447.96
Louisiana	488.75	608.30	403.12	484.00	590.32	406.61	516.95	688.32	405.00
New Jersey	502.06	584.98	447.86	509.84	585.28	461.67	476.98	605.48	395.09
New Mexico	405.17	459.05	363.82	416.63	472.10	373.54	272.84	288.69	252.67
Seattle-Puget Sound	499.92	571.41	448.78	512.22	581.74	462.36	511.57	636.84	405.89
Utah	397.65	469.75	341.04	403.44	476.25	346.17	295.25	351.18	239.19
9 SEER Areas <sup>b</sup>	469.22	545.47	415.96	477.50	549.03	428.10	504.97	647.94	409.10
11 SEER Areas <sup>b</sup>	456.14	529.17	405.95	465.78	534.25	419.26	493.05	624.43	405.05
13 SEER Areas <sup>b</sup>	456.26	529.39	405.98	465.84	534.44	419.21	491.98	624.03	403.54
17 SEER Areas <sup>b</sup>	464.41	541.04	411.64	471.83	543.57	422.96	491.16	626.07	400.94

<sup>a</sup>

Rates are per 100,000 and are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1130)

<sup>b</sup>

The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah and Atlanta.

The SEER 11 areas comprise the SEER 9 areas plus San Jose-Monterey and Los Angeles.

The SEER 13 areas comprise the SEER 11 areas plus the Alaska Native Registry and Rural Georgia.

The SEER 17 areas comprise the SEER 13 areas plus California excluding SF/SJM/LA, Kentucky, Louisiana and New Jersey.

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Statistic not shown. Rate based on less than 16 cases for the time interval.

Table 2.21  
All Cancer Sites (Invasive)

Estimated United States Cancer Prevalence Counts<sup>a</sup> on January 1, 2008  
By Race/Ethnicity, Sex and Years Since Diagnosis

Years Since Diagnosis		0 to <5	5 to <10	10 to <15	15 to <20	20 to <25	25 to <30	0 to <18 <sup>e</sup>	0 to <33 <sup>e</sup>	>=33 <sup>g</sup>	Complete <sup>h</sup>
Race	Sex										
All Races <sup>b</sup>	Both Sexes	4,132,758	2,851,221	1,878,782	1,129,972	658,827	413,357	9,795,922	11,478,794	478,805	11,957,599
	Males	2,121,106	1,419,006	899,769	444,824	220,318	123,455	4,857,657	5,407,975	97,887	5,505,862
	Females	2,011,652	1,432,215	979,013	685,148	438,509	289,902	4,938,265	6,070,819	380,918	6,451,737
White <sup>b</sup>	Both Sexes	3,552,919	2,502,741	1,667,443	1,025,739	599,931	378,080	8,540,079	10,073,552	422,039	10,495,591
	Males	1,815,492	1,236,957	795,345	407,506	202,679	114,503	4,213,126	4,720,180	91,527	4,811,707
	Females	1,737,427	1,265,784	872,098	618,233	397,252	263,577	4,326,953	5,353,372	330,512	5,683,884
Black <sup>b</sup>	Both Sexes	390,394	234,454	143,332	68,326	37,830	22,314	840,720	936,612	26,988	963,600
	Males	210,085	129,069	74,942	25,196	10,920	5,197	447,658	474,747	2,566	477,313
	Females	180,309	105,385	68,390	43,130	26,910	17,117	393,062	461,865	24,422	486,287
Asian/ Pacific Islander <sup>c</sup>	Both Sexes	117,499	71,722	42,716	+	+	+	248,042	+	+	+
	Males	51,757	29,223	16,203	+	+	+	102,531	+	+	+
	Females	65,742	42,499	26,513	+	+	+	145,511	+	+	+
Hispanic <sup>d</sup>	Both Sexes	231,699	140,158	118,005	+	+	+	489,862	+	+	+
	Males	110,521	64,626	49,217	+	+	+	224,364	+	+	+
	Females	121,178	75,532	68,788	+	+	+	265,498	+	+	+

Estimated prevalence percent<sup>a</sup> on January 1, 2008, of the SEER 11 population diagnosed in the previous 18 years  
By Age at Prevalence, Race/Ethnicity and Sex

Age at Prevalence		Age Specific (Crude)									Age-Adjusted <sup>f</sup>	
		All Ages	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80+	All Ages
<u>Race</u>	<u>Sex</u>											
All Races <sup>c</sup>	Both Sexes	2.7119%	0.0789%	0.1632%	0.2690%	0.6819%	1.6511%	3.8386%	8.5534%	13.6175%	14.3510%	2.7635%
	Males	2.7122%	0.0839%	0.1727%	0.2544%	0.5250%	1.1291%	3.1627%	9.4144%	18.1814%	21.0990%	3.1491%
	Females	2.7117%	0.0736%	0.1533%	0.2845%	0.8435%	2.1749%	4.4853%	7.7733%	10.0184%	10.6162%	2.5395%
White <sup>c</sup>	Both Sexes	2.9529%	0.0850%	0.1778%	0.2992%	0.7570%	1.7435%	3.9685%	8.8923%	14.2663%	14.7234%	2.8859%
	Males	2.9217%	0.0908%	0.1891%	0.2835%	0.5945%	1.2063%	3.2350%	9.5835%	18.6768%	21.2550%	3.2330%
	Females	2.9843%	0.0790%	0.1658%	0.3164%	0.9318%	2.3027%	4.6947%	8.2482%	10.7059%	11.1238%	2.6942%
Black <sup>c</sup>	Both Sexes	1.9972%	0.0564%	0.1099%	0.1712%	0.4640%	1.3397%	3.7423%	9.0015%	13.2571%	13.1242%	2.6219%
	Males	2.2429%	0.0589%	0.1099%	0.1568%	0.3173%	0.9417%	3.8131%	12.4108%	20.8943%	22.8004%	3.5762%
	Females	1.7742%	0.0539%	0.1099%	0.1852%	0.5924%	1.6875%	3.6834%	6.3764%	8.0232%	8.6223%	2.0336%
Asian/ Pacific Islander <sup>c</sup>	Both Sexes	1.7873%	0.0627%	0.1259%	0.1673%	0.4219%	1.2419%	2.8185%	5.2979%	8.6994%	10.4282%	1.8661%
	Males	1.5886%	0.0662%	0.1370%	0.1511%	0.2623%	0.6568%	1.7373%	4.9396%	11.0274%	15.2947%	1.9117%
	Females	1.9735%	0.0590%	0.1142%	0.1835%	0.5729%	1.7777%	3.7589%	5.6029%	6.9589%	7.3696%	1.8895%
Hispanic <sup>d</sup>	Both Sexes	1.0738%	0.0642%	0.1512%	0.1885%	0.4485%	1.1085%	2.5192%	5.4878%	9.0558%	9.6999%	1.8450%
	Males	0.9417%	0.0701%	0.1603%	0.1831%	0.3275%	0.6519%	1.7366%	5.5521%	12.1730%	14.3509%	2.0219%
	Females	1.2140%	0.0579%	0.1416%	0.1948%	0.5900%	1.6049%	3.2719%	5.4324%	6.7423%	6.9899%	1.7889%

<sup>a</sup> US 2008 cancer prevalence counts are based on 2008 cancer prevalence proportions from the SEER registries and 1/1/2008 US population estimates based on the average of 2007 and 2008 population estimates from the US Bureau of the Census.

<sup>b c d</sup> Prevalence was calculated using the First Malignant Primary Only for a person. Statistics based on (b) SEER 9 Areas (c) SEER 11 Areas and Rural Georgia (d) NHIA for Hispanic for SEER 11 Areas and Rural Georgia.

<sup>e</sup> Maximum limited-duration prevalence: 33 years for 1975-2008 SEER 9 data; 18 years for 1990-2008 SEER 11 data (used to calculate prevalence for Hispanics and Asian Pacific Islanders).

<sup>f</sup> Percentages are age-adjusted to the 2000 US Standard Population (19 age groups - Census P25-1130) by 5-year age groups.

<sup>g h i</sup> (g) Cases diagnosed more than 33 years ago were estimated using the completeness index method (Capocaccia et. al. 1997, Merrill et. al. 2000). (h) Complete prevalence is obtained by summing 0 to <33 and >=33. (i) Age-specific completeness index was approximated using empirical data from historical Connecticut tumor registry.

- Statistic not shown. Statistic based on fewer than 5 cases estimated alive in SEER for the time interval.

+ Not available.

# SEER Observed Incidence, SEER Delay Adjusted Incidence and US Death Rates<sup>a</sup> All Cancer Sites, by Race and Sex



Figure 2.1

<sup>a</sup> Source: SEER 9 areas and US Mortality Files (National Center for Health Statistics, CDC).  
Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).  
Regression lines and APCs are calculated using the Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute.  
The APC is the Annual Percent Change for the regression line segments. The APC shown on the graph is for the most recent trend.  
\* The APC is significantly different from zero ( $p < 0.05$ ).

# SEER Observed Incidence, SEER Delay Adjusted Incidence and US Death Rates<sup>a</sup> All Cancer Sites, Under 65 Years of Age, by Race and Sex

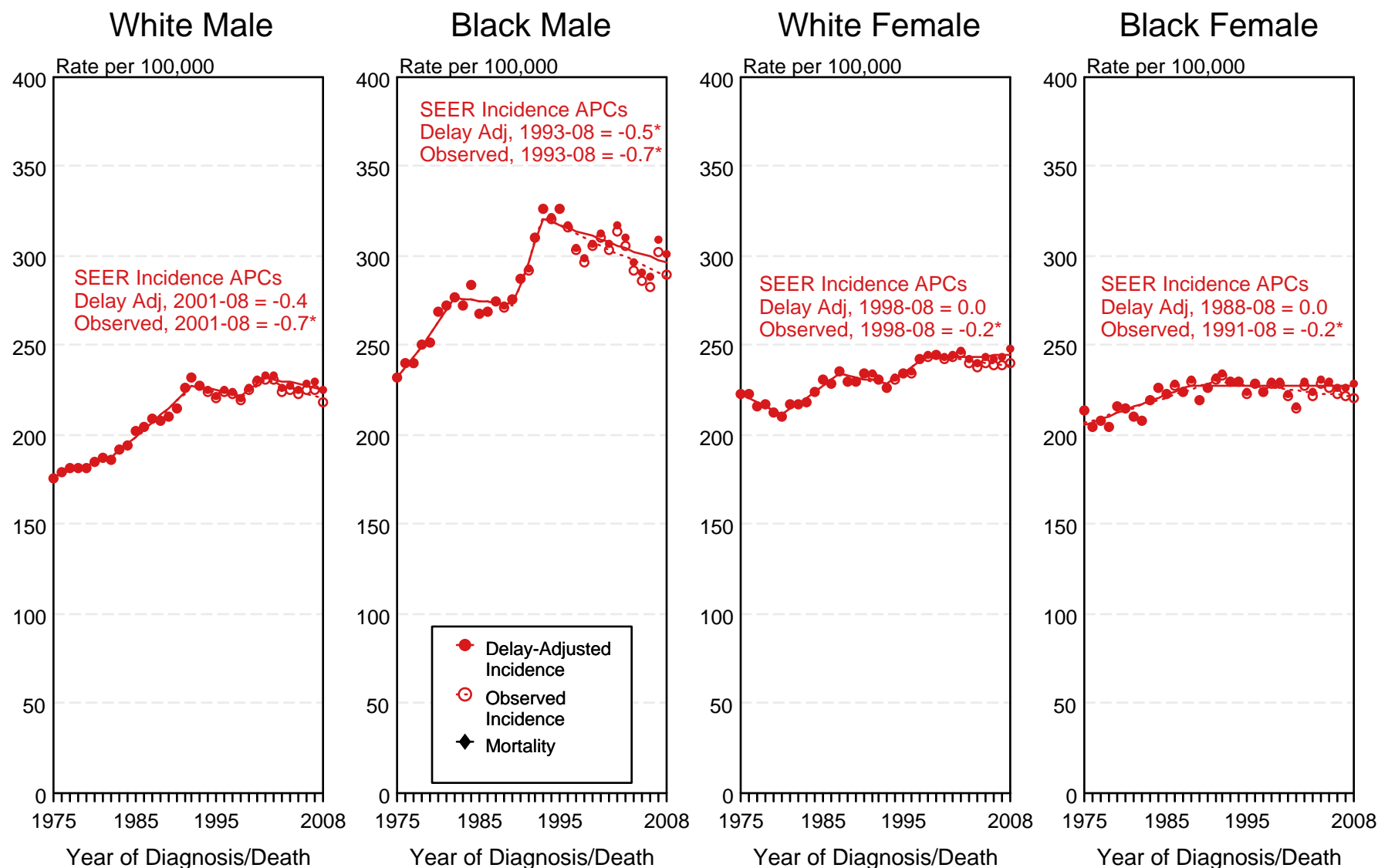


Figure 2.2

<sup>a</sup> Source: SEER 9 areas and US Mortality Files (National Center for Health Statistics, CDC). Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103). Regression lines and APCs are calculated using the Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute. The APC is the Annual Percent Change for the regression line segments. The APC shown on the graph is for the most recent trend.

\* The APC is significantly different from zero ( $p < 0.05$ ).

# SEER Observed Incidence, SEER Delay Adjusted Incidence and US Death Rates<sup>a</sup> All Cancer Sites, Ages 65 and Over, by Race and Sex

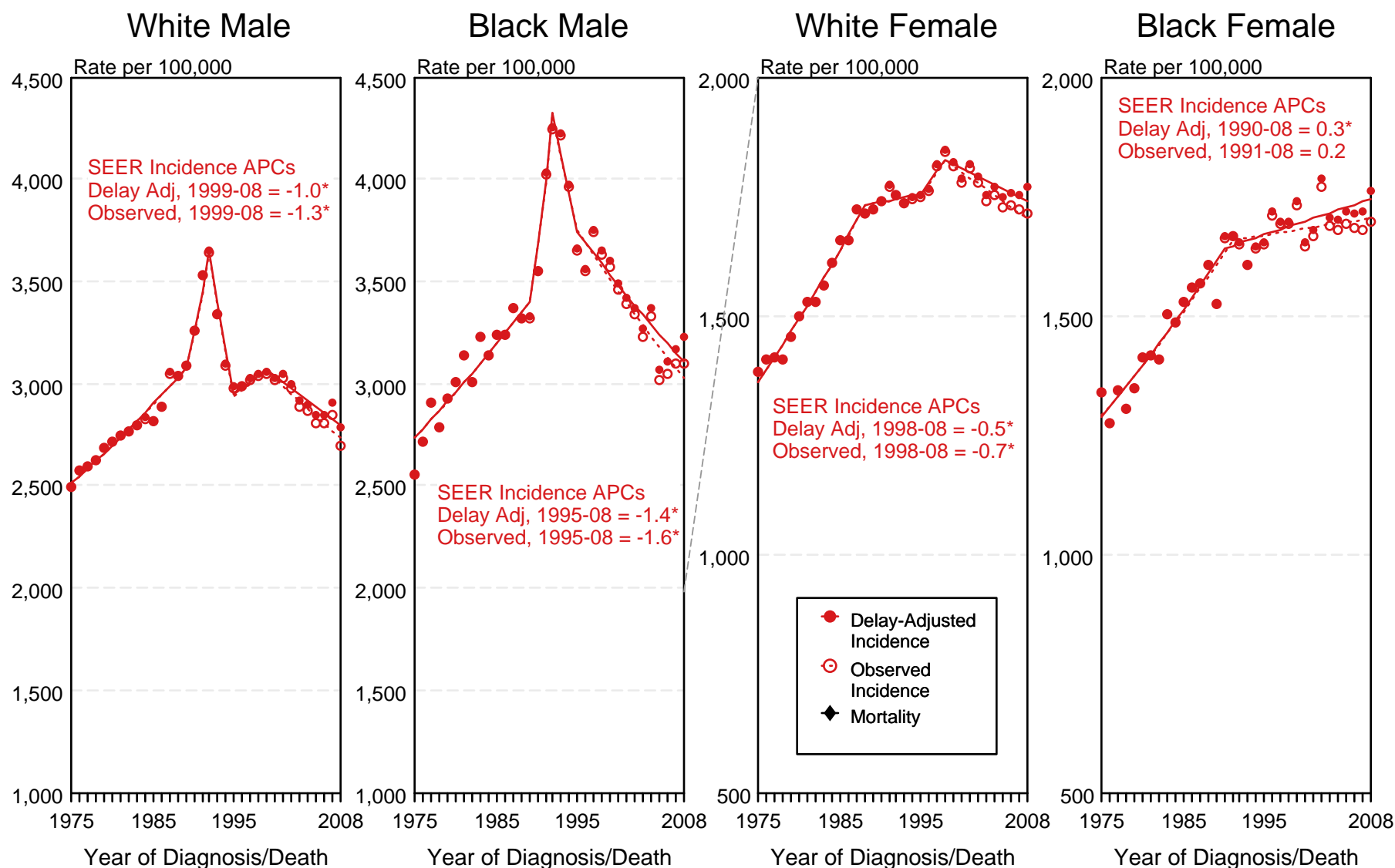


Figure 2.3

<sup>a</sup> Source: SEER 9 areas and US Mortality Files (National Center for Health Statistics, CDC).  
Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).  
Regression lines and APCs are calculated using the Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute.  
The APC is the Annual Percent Change for the regression line segments. The APC shown on the graph is for the most recent trend.  
\* The APC is significantly different from zero ( $p < 0.05$ ).



SEER Incidence and US Death Rates<sup>a</sup>

## All Cancer Sites, Both Sexes

Joinpoint Analyses for Whites and Blacks from 1975-2008

and for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics from 1992-2008

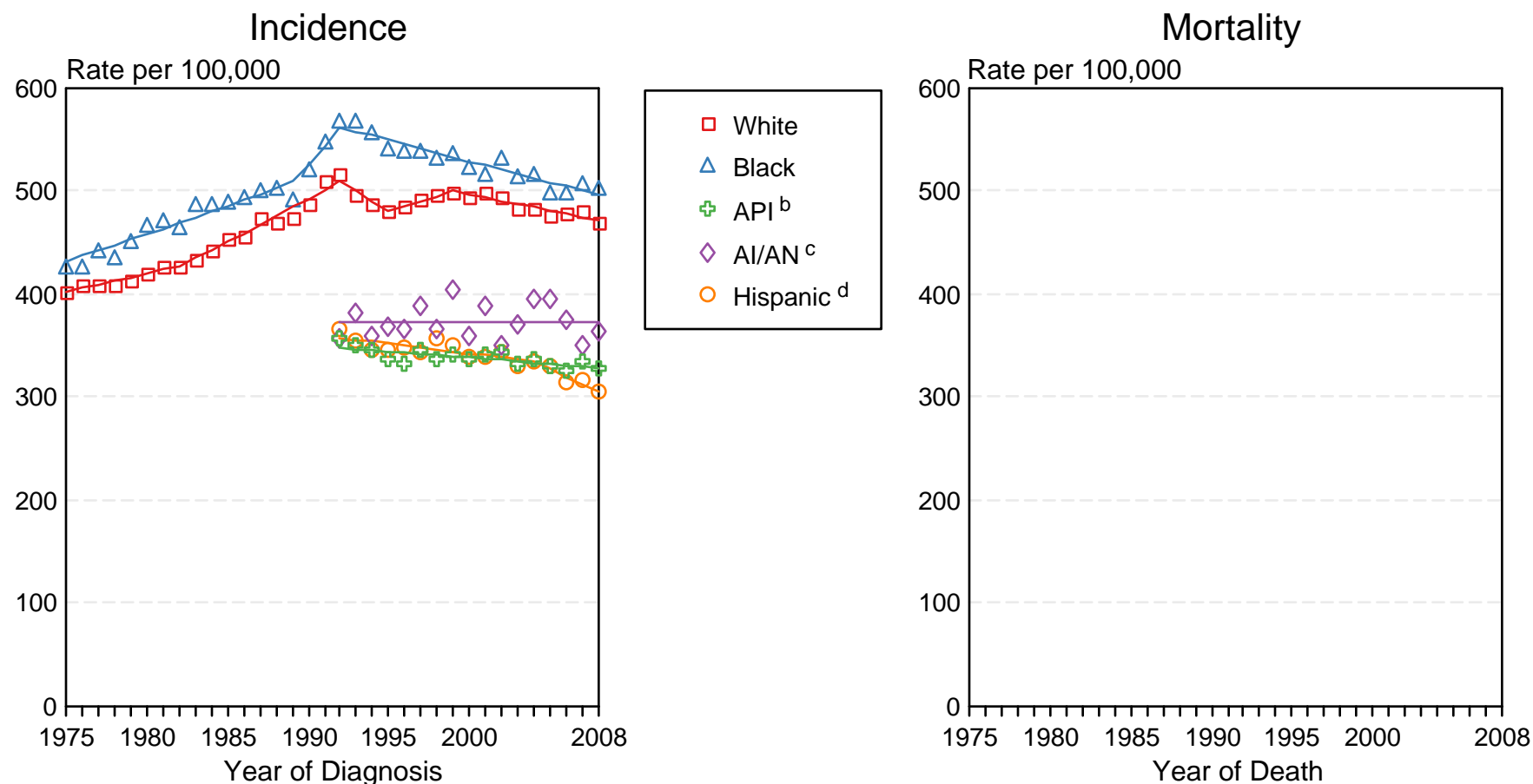


Figure 2.4

Source: Incidence data for whites and blacks are from the SEER 9 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta). Incidence data for Asian/Pacific Islanders, American Indians/Alaska Natives and Hispanics are from the SEER 13 Areas (SEER 9 Areas, San Jose-Monterey, Los Angeles, Alaska Native Registry and Rural Georgia). Mortality data are from US Mortality Files, National Center for Health Statistics, CDC.

<sup>a</sup> Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103). Regression lines are calculated using the Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute. Joinpoint analyses for Whites and Blacks during the 1975-2008 period allow a maximum of 5 joinpoints. Analyses for other ethnic groups during the period 1992-2008 allow a maximum of 3 joinpoints.

<sup>b</sup> API = Asian/Pacific Islander.

<sup>c</sup> AI/AN = American Indian/Alaska Native. Rates for American Indian/Alaska Native are based on the CHSDA (Contract Health Service Delivery Area) counties.

<sup>d</sup> Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives. Incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry. Mortality data for Hispanics exclude cases from Connecticut, the District of Columbia, Maine, Maryland, Minnesota, New Hampshire, New York, North Dakota, Oklahoma, and Vermont.

# SEER Observed Incidence and SEER Delay Adjusted Incidence Rates<sup>a</sup> SEER 9 Areas Compared to SEER 13 Areas All Cancer Sites, Males, by Race

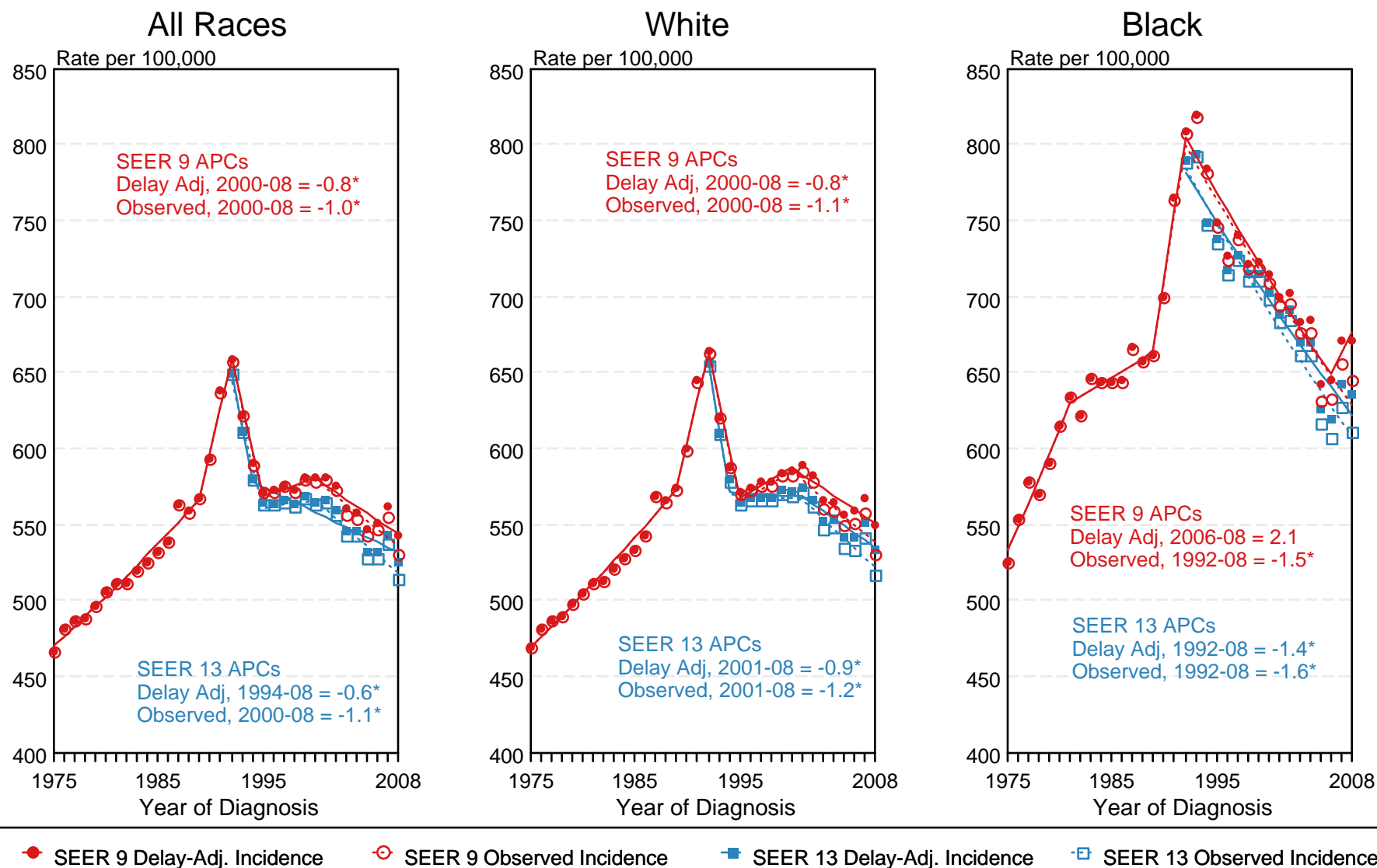


Figure 2.5

<sup>a</sup> Source: SEER 9 areas and SEER 13 areas.  
Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).  
Regression lines and APCs are calculated using the Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute.  
The APC is the Annual Percent Change for the regression line segments. The APC shown on the graph is for the most recent trend.  
\* The APC is significantly different from zero ( $p < 0.05$ ).

# SEER Observed Incidence and SEER Delay Adjusted Incidence Rates<sup>a</sup> SEER 9 Areas Compared to SEER 13 Areas All Cancer Sites, Female, by Race

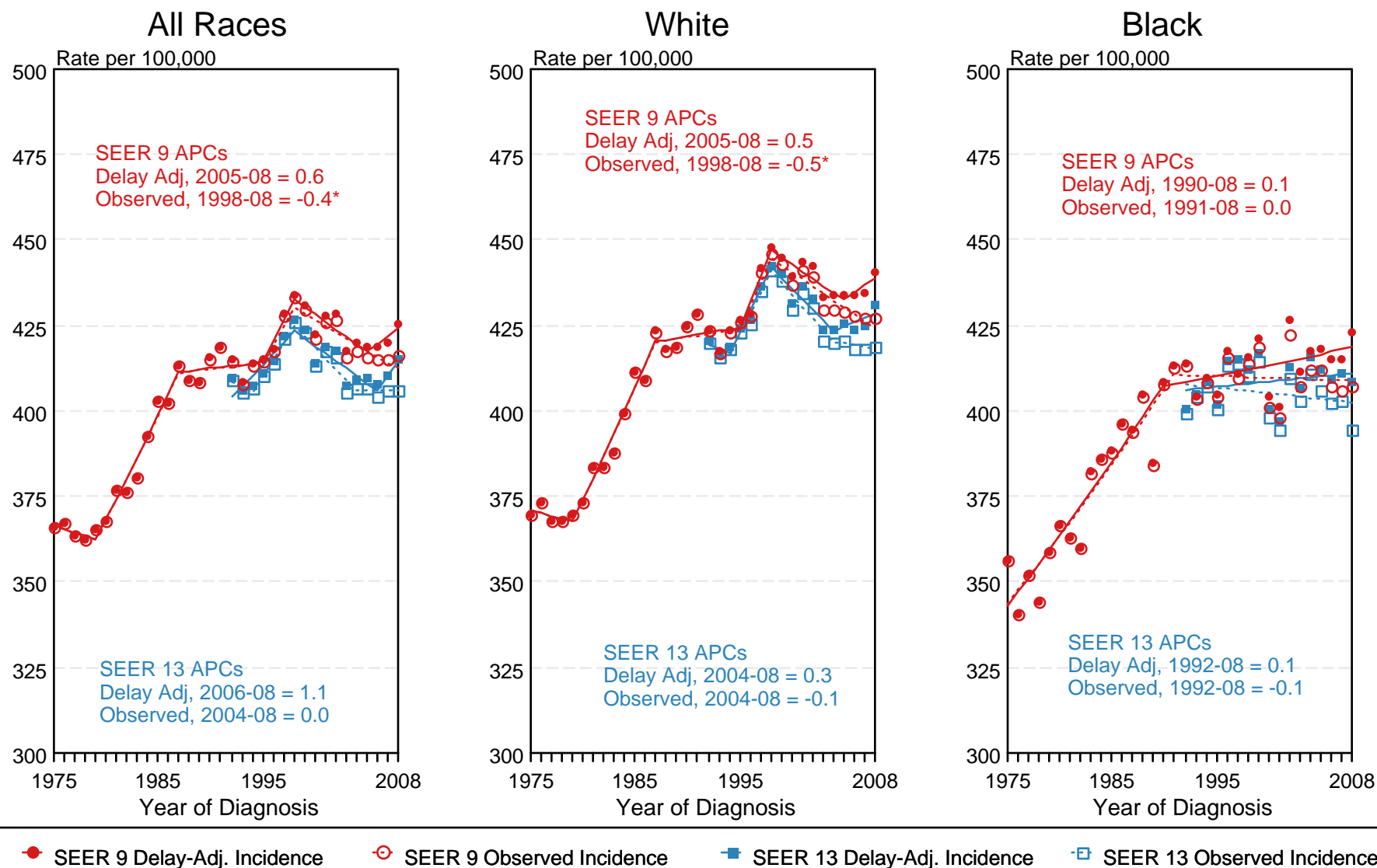


Figure 2.6

<sup>a</sup> Source: SEER 9 areas and SEER 13 areas.  
Rates are age-adjusted to the 2000 US Std Population (19 age groups - Census P25-1103).  
Regression lines and APCs are calculated using the Joinpoint Regression Program Version 3.5, April 2011, National Cancer Institute.  
The APC is the Annual Percent Change for the regression line segments. The APC shown on the graph is for the most recent trend.  
\* The APC is significantly different from zero ( $p < 0.05$ ).